



Australian Government

Assessment Requirements for MSFFL3100

Apply densifiers and sealers to concrete surfaces

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSFFL3049 Apply densifiers and sealers to concrete surfaces.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- applied densifying, sealing and grouting products to achieve the required finish in accordance with job requirements to both 1 new and 1 existing concrete surface.
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Knowledge Evidence

There must be evidence the candidate has knowledge of

- mathematical procedures for estimation and measurement, including calculation of area and estimation of material requirements
- densifying and sealing of concrete:
 - Australian Standards requirements
 - workplace safety systems
 - environmental protection and sustainability requirements
 - work flow
 - types, characteristics, safe use, maintenance and limitations of preparation and application tools and equipment
- methods of concrete floor preparation and requirements prior to application in relation to:
 - contaminants
 - debris
 - dust
 - moisture content level and stability
- characteristics of densifier and sealer products in relation to ventilation and reaction to change of temperature and relative humidity
- type, characteristics, uses and limitation of materials, including manufacturer recommendations for:
 - reactive concrete densifiers using colloidal silica to harden and densify new or older concrete surfaces
 - densifiers and sealers to protect concrete from stains, dust production and wear, and supports polishing

- application methods and techniques, the types of problems that may occur and how to avoid and respond, including for:
 - pour and brush spreading
 - low-pressure, airless spraying
- quality indicators for finished surfaces
- procedures and protocols for the recording, reporting and maintenance of workplace records and information.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - concrete surfaces to be finished
 - equipment, tools and materials for application of products
 - work orders
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>